

MILATARI NEWSLETTER Volume 2 Number 7

June 1983

Price \$1.00

NEXT MEETING **

SATURDAY, JUNE 18st - Open at 2PM ARMBRUSTER SCHOOL - GREENDALE

MEETING ADGENDA

2:00 PM Basic class - Linda Scott Review beginning BASIC instructions

2:00 PM Education S.I.G. - Joe Sanders Organization meeting MOTTAMOONA SIMILMONIA

3:00 PM Business meeting Officers' reports Old business New business

Report from C.E.S. 4:00 PM Several members will share their observations from the Summer C.E.S. Slides of the NEW Atari products will be shown

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Milwaukee Area ATARI Users Group

This newsletter is written and printed by members of the Milwaukee Area ATARI Users Group (MILATARI), an association of individuals with a common interest in using and programming ATARI computers. MILATARI is not affiliated with the company, nor any other commercial organizations.

All articles are written and Secretary donated by the membership. Opinions expressed in this publication are those of the individual author and do not necessarily represent, nor reflect, the opinions of MILATARI nor those of any other commercial Cassette Ron Friedel or non-commercial organizations. Any article appearing in this newsletter may be reproducted, providing credit is given to the author and to MILATARI.

Write MILATARI Newsletter at P.O. Box 1191, Waukesha, WI 53187.

MEMBERSHIP INFORMATION

Membership is open to individuals and families who are interested in using and programming ATARI computers. The membership includes the subscription to this newsletter Technical support Group: and access to the user's library. The membership fee is \$15 per year The following members have for individual, \$20 for family and indicated a willingness to assist \$10 for associate. Contact Larry MILATARI members. Leskovsek, Treas. at 547-0249 or write MILATARI, P.O. Box 1191. Waukesha, WI 53187 for information.

MEETING INFORMATION

MILATARI meetings are held once monthly. This month the meeting will be held at the Armbruster School, 7000 Greenway, Greendale, WI. The meeting is held in the multi-purpose room. BASIC classes begin at 2:00 P.M. Technical sessions are also held a 2:00 P.M. MILATARI Bullentin Board: The business session begins at 3:00 P.M. followed by demostrations. The The MILATARI Users Group maintains after the business meeting.

MILATARI Officers:

President	Gary Nolan 353-9716	
Vice-president	Chris Stieb 529-2663	

Treasurer	Larry Leskovsek
	547-Ø249

Jim Comaris

	353-3447	
Eduction	Linda Scott	

Chairperson		466-2314		
			_	

Librarian	354-1717	
Di ale	Chaus	D44

Steve Booth
367-8739

Publications	Karl Buschhaus
Librarian	774-2576

Newsletter	David Frazer
Editor	542-7242

Bulletin Board	Bill Simotti
SYSOP	352-1790

William Lawrence	1-968-3Ø82
	Programming
Don Wilcox	228-1650
	Programming
Erik Hanson	252-3146
	Prog/Tech
Gary Nolan	353-9716
	Prog/Tech
Steve Booth	367-8739
	Programming
Nick Liberski	786-8434
	Prog/Tech

library will be open before and a 24 hr bulletin board service. The phone number is 352-2772.

HOW TO USE THE MIL-ATARI SUPER AMIS BULLETIN BOARD SYSTEM

By SYSOP- BILL SIMOTTI

PRIMARY FUNCTION: to allow the user to download programs from the BBS that later can be run on his/her computer. Also to upload files/programs that you have, to the Mil-Atari BBS.

SECONDARY FUNCTION: full message system, with Account number and Password. If a user elects to send and receive private messages, he/she must request a password during sign-on. The password and account number will be activated within one week. Check "Z" in the main menu for your name and account number, to see if your password is functional. Only a user with an account number and password can send and receive private messages.

SPECIAL FUNCTION: information database— Data info files called "SIGx", (x=number of sig). Special Interest Group, taken from comp-u-serve's sig-atari BBS. These files contain latest Atari fact and/or rumors posted on the sig on compuserve by many of the Atari users.

Modem/ B.B.S./ ONLINE DEFINITIONS

B.B.S.- Bulletin Board System

A.M.I.S.- Atari Message Information System

Super A.M.I.S.- AMIS with private message system

MODEM- hardware needed to connect phone to Atari 850 interface (in some cases directly from phone line to computer)

- A. Smart modem- a modem that has a computer built in for auto-answer/ auto-dial the phone by computer/user commands and other functions.
 - B. Dumb modem- a standard modem other than above.

TERMINAL SOFTWARE- the software used in the computer to connect and run your modem, to access over phone line.

- A. Smart software- ability to upload and download and to use full computer ability and memory.
- b. Dumb Software- telelink, as an example, allows data from phone line to appear on TV screen, only. Your computer is called a dumb terminal, as this is all it can do.

UPLOAD- send your file/ program/ data to another system.

DOWNLOAD- take data/ file/ program from another system.

ASCII- universal code for over the phone data communication between most types of computers.

ATASCII- Atari ASCII, all atari codes needed and used in programming and data transfer of atari files.

TRANSLATION- either ASCII or ATASCII

FULL DUPLEX: used to communicate to any B.B.S. or Atari B.B.S.

Dana T

HALF DUPLEX: used to communicate to any other computer that is being run as you are, manually.

CARRIER- a tone signal to establish a link between two modems for data transfer. A connection would be called a "hand-shake" or "on-line".

XMODEM TRANSFER PROTOCOL- use with atari computers/ modem and software to verify that each file/program sector is being sent over the line correctly. Used especially to send and receive atari programs without error.

PUBLIC DOMAIN PROGRAMS- programs/ files that can be copied and that are not for sale.

MIL-ATARI BBS ACCESS DIRECTIONS

BEFORE YOU CALL: not a see a group desent is long. . . (pis to redsum x)

- -turn on your modem, interface and disk drive as soll seed. 888 13849-948
- -load your terminal software we had and to your yd averaugnos no pie add no
- -switch translation to ATASCII, ATARI TERMINAL MODE
- -to check if in ATASCII, hit inverse key and type something in terminal mode, if you see what your type is in inverse, then you are in ATASCII.

ByBdSur-Bulletin Board System:

Super A.M. 1:5: - AMIS with private message system

A. Smart software- ability be unload and wownload

CALL MIL-ATARI BBS: (414)352-2772

-the BBS should answer within one ring, if not after 3 rings, hang-up -when a tone from the BBS is heard, switch in your modem by "originate".

ONLINE:

- -you will see-
- -"ATARI USERS GO ATASCII, HIT <RETURN>""" TO THE STANDARD OF T
- -if you are in ATASCII, you should see ATASCII in inverse, otherwise you are not, then this is the time to switch into it from your terminal software before you hit return
- -when prompted for name and address, type it in using upper case only.
 -in the main menu, type "H" or "?" for definitions of menu commands.

MIL-ATARI SYSOP, BILL SIMOTTI - (414)352-1790 odd 1800 00 00 00 000 1000

15 Industrat double bull Joe Sanders - Chairman (%) (414) 447-1660

The MILATARI User Group has established a committee for members who have expressed an interest in software and training for educational application. This special interest group will be addressing the needs of members who want to extend their use of computers in areas other than entertainment.

In order to accomplish the immediate goals of the committee, members should make an effort to attend our June 18, meeting scheduled for 2:00 p.m., before the regular business session, at Armbruster School, 7000 Greenway, Greendale, Wi. The meeting for educational users is open to everyone.

Questions concerning the committee should be directed to Joe Sanders, 447-1660.

CSD COMPUTING SHORT COURSES

SUMMER, 1983

The Computing Services Division at the University of Wisconsin-Milwaukee short courses for the summer semester, 1983 will be scheduled on the basis of demostrated interest. Many of the courses should be of interest to MILATARI members with some of courses utilizing the ATARI 800.

Tom Krischan will be teaching several of the course listed below. Please call Tom at (414)963-4008 for course descriptions and further details

CSD COMPUTING SHORT COURSES -- SUMMER, 1983

FREE SEMINARS -- One session each

CSD Facilities	and Services	
1 session	1-1/2 hours	Free
Data Entry		
1 session	2 hours	Free
UWM/INFO		
1 session	1 hour	Free
Introduction to	o UDH on the Univac 1100	
1 session	2 hours	Free
Introduction to	o MISER on the Univac 1100	
1 seeion	2 hours	Free
Overview of FO	RTH	
1 session	2 hours	Free

NON-CREDIT SHORT COURSES

Introduction to Computing on the Univac 1100	
6 sessions 1 hour/session	\$20/\$40**
Interactive (Demand) Processing on the Univac 1100	
6 sessions 1 hour/session	\$20/\$40**
Interactive Statistics on the Univac 1100	
6 sessions 1 hour/session	\$20/\$40**
Magnetic Tape Handling	
4 sessions 1 hour/session	\$10/\$20**
Microcomputers for the Human Being	
4 sessions 1 hour/session	\$10/\$20**
*So You Want to Buy a Microcomputer	
1 session 3 hours	\$10/\$20**
Personal Computer BASIC for Beginners	
6 sessions 2 hours/session	\$30/\$60**
Telecomputing with Microcomputers	
2 sessions 2 hours/session	\$10/\$20**
*Computer Game Design	
1 session 3 hours	\$10/\$20**
*Intermediate Graphics and Animation	
3 sessions 2 hours/session	\$20/\$40**

OTHER POSSIBILITIES WORLD WIND WAR AND TRANS

UNIX -- course length and cost to be determined

C -- course length and cost to be determined

* = courses which enclude the use of the ATARI 800

** = The first course fees listed are for UWM students, faculty or staff.

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Others pay the second (higher) fee.

Each course will be scheduled if a sufficient number of responses are received by Monday, June 27th. Everyone who completes a short course interest form will be contacted about when and where the class will be held. Send your interest form to:

User Services - UWM Computing Services EMS E38Ø P.O. Box 413 Milwaukee, WI 532Ø1

CSD Short Course Interest Form -- Summer, 1983

NON-CREDIT SHORT COURSES	
2 hours	nalesz l urana ko un binniñ
	both days and time)
and the little and the letter of the letter	3 PREFERRED
Z hours	Child Theory
1-1/2 hours	
	TIMES (indicate

DOUBLE DENSITY Your ATARI 810 ???? On

(This message was pulled off the ATARI bulletn board on the The SOURCE. Hopefully, one of the hackers in our membership will get a hold of this conversion and submit a review.)

NO, THIS IS NOT A TRANSMISSION ERROR! Your 810 disk drive can now become a DOUBLE DENSITY powerhouse with the new NCT "810 TURBO" Conversion Board by The "810 TURBO" easily installs INSIDE your 810 with no cutting, NCT. wiring, or soldering. A simple project with complete, clear installation instructions. And it even does a couple of other nice little things:

DOUBLE DENSITY - Format, read & write. Totally compatable with Percom and the new Atari DD coming soon. THINK ABOUT IT! Now - 176K on every disk! SINGLE DENSITY - Your existing disks will still load with "810 TURBO" they'll do it much faster and a lot more efficiently. AUTO READ - No switches, no software. "810 TURBO" KNOWS if it's SD or DD. DATA SEPARATOR - Greater speed tolerance. No more error-138 or error-144.

FAST CHIP - EVERYTHING happens faster! Format, read and write!

BACKEMUP - INCLUDED! Back up your expensive protected disks - all of 'em! PACKEMUP - INCLUDED! Cut backups, then pack them on one disk for economy.

SOURCE SUBS INTRO OFFER - \$230.00 RETAIL \$295.00 (Complete - no extras)

NCT - P.O.Box 16489 - Irvine, CA 92713 - 714/770-0372 (CA+6%, VISA, MC) (Shipping prepaid, No bankcard upcharge. No C.O.D. Full payment w/order.)

PROGRAMMING EXAMPLES

Some miscellaneous examples and discussions of programming the ATARI 400/800 Home Computer System

- - ngie na (2) Bubble-Sort nos Mississimumas (4 (284) 100 MB) 284 (100 GA)
 - 3) Rocksort bla Man Man Logal M (avanua) Melli avanua ovi
 - 4) Real-time Clock
 - 5) Getting Data From the Keyboard

Information provided by:

ATARI INC.
CONSUMER PRODUCT SERVICE
PRODUCT SUPPORT GROUP

DEMOPAC #3

290 IF COUNTED THEN PRINT \$2:1-10 -50 FCM -10-10 Carriage return

Formatting Dollar Amounts DEB 5/82

The following program illustrates a method of formatting dollar amounts, on the screen or on a printer. This example accepts input of number amounts between Ø and 9999.99

The program checks each input number and rounds it off to two decimal places, adding trailing zeros if necessary. The number is turned into a string, and concatenated onto a dollar sign. There is some error-checking, for non-numberic or out-of-range input. Output is then formatted into evenly spaced columns.

There are two versions of the program. The first stores the input data in a long-string array in memory, and prints the output on a printer. The second version creates a data file to store the data on cassette or diskette. It then prints the output on the screen.

AND STONESSEN (AMOUNT) AMOUNT-ABS (AMOUNT FLASH) LORD, track of sligh

128 IF CENTSLEN=6 THEN ANOUNTS (LEN

- 2 REM VERSION 1 prints admi druoms noud NBA: (TMUDMA) 8AT8-8TMUOMA 8A
- 3 REM DEB 5/82 month and Lob admagne Mask Component Tutters and English Tutters and Tutter
- 4 REM this version stores data in a long-string array when the sto
- 5 REM and prints output on a printer
- 10 REM initialization
- 20 DIM AMOUNT\$(20), DOLLAR\$(25), YNS\$(3), ARRAY\$(1000), SPACE\$(12)
- 3Ø SPACE\$="":REM format output for evenly spaced columns
- 40 COUNT=1:REM set counter for number of inputs
- 50 TRAP 50:PRINT "VALUE.."::INPUT AMOUNT:TRAP 40000
- 55 REM ************* format each amount ***************
- '50 SIGN=SGN(AMOUNT):AMOUNT=ABS(AMOUNT):REM keep track of sign
- 7Ø AMOUNT=INT((AMOUNT+5.ØE-Ø3)*1ØØ)/1ØØ:REM round for dollar amount
- 80 AMOUNT=AMOUNT*SIGN:REM restore sign
- 90 AMOUNT\$=STR\$(AMOUNT):REM turn amount into string
- 100 DOLLARLEN=LEN(STR\$(INT(AMOUNT)):REM separte dollars from cents

11Ø CENTSLEN=LEN(AMOUNT\$)-DOLLARLEN 12Ø IF CENTSLEN=Ø THEN AMOUNT\$(LEN(AMOUNT\$)+1)=".ØØ":REM check for trailing zeros 13Ø IF CENTSLEN=2 THEN AMOUNT\$(LEN(AMOUNT\$)+1)="Ø" | | | 14Ø DOLLAR\$="\$ ":REM string containing dollar sign and 4 spaces" 15Ø TRAP 5Ø:DOLLAR\$=DOLLAR\$(1,5-DOLLARLEN):REM allow only 4 digit number 160 DOLLAR\$(LEN(DOLLAR\$)+1)=AMOUNT\$:REM concatenate to dollar sign 17Ø ARRAY\$(LEN(ARRAY\$)+1)=DOLLAR\$:REM add element to array 180 PRINT "ANY MORE"::TRAP 50:INPUT YNS\$ 19Ø IF YNS\$(1,1)<>"Y" THEN IF YNS\$(1,1)<>"N" THEN GOTO 18Ø 200 IF YNS\$(1,1)="N" THEN GOTO 240 21Ø IF COUNT=4Ø THEN ? "ARRAY FULL":GOTO 24Ø 220 COUNT=COUNT+1:GOTO 50:REM get another number 235 REM printout routine 240 OPEN #2,8,0,"P:":REM open printer file 25Ø FIELD=1:REM determines location of element in string array 260 COUNT=0:REM check for end of line 27Ø TRAP 31Ø:PRINT #2;ARRAY\$(FIELD,FIELD+7);SPACE; 28Ø FIELD=FIELD+8:COUNT=COUNT+1 290 IF COUNT=4 THEN PRINT #2:GOTO 260:REM execute carriage return 300 GOTO 270

310 PRINT #2:CLOSE #2:REM close files when data is finished

The following program illustrates a method of formations doliar amounts 1 REM FORMATTING DOLLAR AMOUNTS 2 REM VERSION 2 3 REM DEB 5/82 4 REM this version stores data in a data file on cassette or disk 5 REM and prints the formatted output on the screen 10 REM initialization 2Ø DIM AMOUNT\$(2Ø),DOLLAR\$(25),YNS\$(3) 30 REM OPEN #1,8,0,"C:":REM for cassette use 4Ø OPEN #1,8,Ø,"D:PRINT.FMT":REM for diskette use 50 TRAP 50:PRINT "VALUE..";:INPUT AMOUNT:TRAP 40000 55 REM ************** format each amount ************** 6Ø SIGN=SGN(AMOUNT):AMOUNT=ABS(AMOUNT):REM keep track of sign 7Ø AMOUNT=INT((AMOUNT+5.ØE-Ø3)*1ØØ)/1ØØ:REM round for dollar amount 80 AMOUNT=AMOUNT*SIGN:REM restore sign 9Ø AMOUNT\$=STR\$(AMOUNT):REM turn amount into string 100 DOLLARLEN=LEN(STR\$(INT(AMOUNT)):REM separte dollars from cents 11Ø CENTSLEN=LEN(AMOUNT\$)-DOLLARLEN 120 IF CENTSLEN=0 THEN AMOUNT\$(LEN(AMOUNT\$)+1)=".00":REM check for 130 IF CENTSLEN=2 THEN AMOUNT\$(LEN(AMOUNT\$)+1)="0" 28 DIM ANDUNTA (28), DOLLARW (25), YNSW (3), ARRAYW (1989), 14Ø PRINT 150 DOLLAR\$="\$ ":REM string containing dollar sign and 4 spaces" 16Ø TRAP 5Ø:DOLLAR\$=DOLLAR\$(1,5-DOLLARLEN):REM allow only 4 digit number 17Ø DOLLAR\$(LEN(DOLLAR\$)+1)=AMOUNT\$:REM concatenate to dollar sign 18Ø PRINT #1;DOLLAR\$:REM print formatted string to data file 190 PRINT "ANY MORE";:TRAP 50:INPUT YNS\$ ON A SUB-THUOMA THEORY 200 IF YNS\$(1,1)="N" THEN GOTO 230

22Ø GOTO 5Ø

21Ø IF YNS\$(1,1)<>"Y" THEN IF YNS\$(1,1)<>"N" THEN GOTO 19Ø

230 CLOSE #1 so sont enallob strages M38: ((TWUDMA)TWI) #8TE) W3 (=W318A LIDS ear

240 REM get data from data file and print in columns on screen 250 REM OPEN #1,4,0,"C:":REM use for cassttee; position tape first 260 OPEN #1,4,0,"D:PRINT.FMT":REM use for diskette 270 POKE 82,0:REM move margin out for even columns 28Ø OPEN #2,8,Ø,"S:" FORMATTED DOLLAR AMOUNTS";:?:? 29Ø ? :? :PRINT #2;" 300 TRAP 330: INPUT #1; DOLLAR\$: REM bring in record 310 PRINT #2; DOLLAR\$,: REM comma inserts spaces for columns 32Ø GOTO 3ØØ 330 CLOSE #1:CLOSE #2:REM close files when data is finished 34Ø END SORT 1 REM BUBBLE 2 REM PY/JB 4/82 3 REM the following program illustrates a simple sort process 4 REM :the user inputs numbers, which are kept in a numeric array. 5 REM :T>the array is then sorted and printed out in order. 6 REM ******************* 10 DIM A(100):REM this array holds the data to be sorted 20 PRINT "HOW MANY ITEMS TO SORT";: INPUT TOTAL 3Ø FOR I=1 TO TOTAL 4Ø PRINT "ENTER A NUMBER...";: INPUT NUMBER 50 A(I)=NUMBER:REM assign data element to array 140 FOR Jet TO LIREM LINEAR LOOP 60 NEXT I 65 REM print out unsorted list for comparison Market (1) 3/01 (1) 3/01 (1) 7Ø FOR I=1 TO TOTAL 80 PRINT A(I) CONTROL 9Ø NEXT I 101 REM sort the array 105 PASS=0:REM keep track of how many times through the list 110 FLAG=0:REM flag=1 indicates that more sorting is necessary 12Ø FOR I=1 TO TOTAL-1 130 IF A(I+1)>=A(I) THEN 180:REM if this item is less than the next, 135 REM they are in the right order, so skip to the next item 14Ø TEMP=A(I):REM if they're in the wrong order, store the litem 21st POME 782, 8: REH re-enable curson temporarily 150 A(I)=A(I+1):REM in order to 92107 bnooms the mass M39:0.0.1 0MUDS 055 160 A(I+1)=TEMP:REM switch the order 170 FLAG=1:REM set the flag to show that a change was made 180 NEXT I:REM check the next item 19Ø IF FLAG=1 THEN PASS=PASS+1:PRINT "PASS=";PASS:GOTO 11Ø 191 REM after each pass, check the flag 192 REM to see if any changes were made: if so, try again. 199 REM print out the sorted list 200 PRINT "SORTED LIST..." 21Ø FOR I=1 TO TOTAL 22Ø PRINT A(I) 23Ø NEXT I 24Ø PRINT "--END OF PROGRAM--"

25Ø END

1 REM ROCKSORT 2 REM WB/JB 4/82 and an analog of Malag bas of the adoption and again the MBR DAS 3 REM sort a string of up to 80 characters 4 REM by making the biggest ones 'fall through' to the bottom 5 REM there is background music, and the sort is timed 6 REM ********************** 10 DIM SORT\$(80), BUF\$(1), TONE(80): REM set up variables 20 GRAPHICS 0:POKE 82,0:REM clear screen, set left margin at column 0 3Ø FOR I=1 TO 8Ø STEP 2:READ T:TONE(I)=T:TONE(I+1)=T:NEXT I 31 REM set up array with tone data for the sound statement 4Ø DATA 29,31,33,35,37,4Ø,42,45,47,5Ø,53,57,6Ø,64,68,72,76,81,85,91,96 41 DATA 102,108,11,121,128,136,144,153,162,173,182,193 42 DATA 204,217,217,230,230,243,243 5Ø PRINT "8Ø CHARACTER STRING TO BE SORTED" 55 INPUT SORT\$ 60 LAST=LEN(SORT\$):REM keep track of where to stop sorting 7Ø GRAPHICS 2:PRINT #6;SORT\$:REM display string in large letters 80 POKE 752.1:REM disable cursor 90 POKE 18,0:POKE 19,0:POKE 20,0:REM initialize real-time-clock 100 REM the following section contains the actual sort, 101 REM along with the background music 110 FOR I=LAST-1 TO 1 STEP -1:REM outer loop
120 SOUND 0, TONE(I), 10, 10:REM first voice of background music 130 FLAG=0:REM this flag turns 1 if any changes are made during the sort 140 FOR J=1 TO I:REM inner loop 150 SOUND 1.TONE(J), 10,8:REM second voice of background music 155 REM --here's the sort itself 16Ø IF SORT*(J,J)>SORT*(J+1,J+1) THEN BUF*=SORT*(J,J):SORT*(J,J)=SORT\$(J+1,J+1):SORT\$(J+1,J+1)=BUF\$:K=1 165 REM if top item is larger, exchange places with next item, and set flag 170 POSITION 0.0:PRINT #6;SORT\$:REM display latest version of string 18Ø NEXT J:REM inner loop 190 IF K=0 THEN I=1:REM check flag-if no changes, skip to last loop 200 NEXT I:REM outer loop 206 REM --finnish up--210 POKE 752,0:REM re-enable cursor 22Ø SOUND 1,Ø,Ø,Ø:REM turn off second voice 23Ø FOR I=29 TO Ø STEP -1:SOUND Ø,I,1Ø,1Ø:NEXT I:REM 1st voice signals end 240 GOSUB 1000:REM call subroutine which figures elapsed time 25Ø PRINT "ELAPSED TIME ";HH;":";MM;":";SS; 26Ø END 998 REM the following subroutine retrives the real-time clock values 999 REM and turns the results into hours(HH), munites(MM) and seconds(SS) 1000 SS=(PEEK(18)*256*256+PEEK(19)*256+PEEK(20)/60 1Ø1Ø HH=INT(SS/(6Ø*6Ø)) 1020 SS=SS-HH*60*60 1030 MM=INT(SS/60) 1040 SS=INT(SS-MM*60) 1050 RETURN

TAKE-ME-OUT-TO-THE-BALLGAME

about computers are Star Ronalow Sary Nolan M rade and Pac-Man. Top three

Last month I asked the musical question "Does Atari want to play hardball?" Well a couple of days before the big game (CES) Atari announced thier new team line-up. And the stats look pretty impressive. Leading off will be the 600XL (finally) with 16K, built-in Atari Basic and a "List" of \$199. Next is the 800XL with 64K, built in Basic and a list of \$299. Third is the 1400XL with built in modem, speech capability and Basic. With a list of \$499. In the clean-up spot the home run hitter is the 1400XLD. It sports all the above plus a built-in double sided drive with room for another. The list is "said" to be between \$700 and \$800. Rounding out the new team will be the 1027 letter quality printer, 1030 direct connect modem with built in telecommunication software, the 1050 disk drive (same 88K cap.) (aaaaaaarrrrrrgggggg), but later this year a new DOS III which gives you 127K of storage. (not impressive, but a step in the right direction!) will be released. Other planned products are a Trak ball, graphics tablet, something called the Atari Expansion System which will allow the new computers to add control cards and special peripherals. And an Atari CP/M external microprocessor upgrade to allow ALL Atari computers to run CP/M. (This I GOTTA see). This is all pre-show info, and while the product data comes from Atari the prices are second hand so the prices might change when I get down to Chitown but the specs should stay the same. emping the price of the ile to \$600.

Speaking of the WINDY CITY and the CES, at the June meeting we'll have a report on the CES and the new line-up from Atari featuring slides of interesting computer products, my trip to the Dells and Dave's dog.

HUH, did somebody say something???

Maybe I didn't say it loud enough or maybe you wern't listening. But the Printer Expo WAS suppose to be this month. I say WAS because it will have to be canceled due to lack of interest. Not on the part of those who would like to buy a printer but from those of you who own them. So much for the volunteer system.

And speaking of printers, AXIOM has a new printer that plugs directly into the 400/800/1200 serial buss and thereby eliminates the need for the 850 Interface. It has a list price of \$299 and can chain a disk or cassette because it too has a serial port on it. Takes up to 10" tractor feed paper, catridge ribbon, 80 col. wide print at 10 char. per inch, double width char., 30 cps, full graphics capability and a TWO year end-user warranty. If it breakswithin that time, they fix it or send you a NEW printer. It might be a little slow, but if all you need is a line printer with some graphics, but the price and warranty make up for it somewhat. AXIOM is part of the Seikosha group, and thems the people that make the EPSON printers.

SEE DICK RUN. SEE THE DOG JUMP.

The educational special intesest group will hold it's first meeting on June 18th. That's the da of the meeting. The time is 2:00pm and the place is Ambruster school. Joe Sanders, the chairman, along with some others have put together a good looking program . So if you're interested in the educational aspects of computing you'll want to be there.

THE ENVELOPE PLEASE

According to a poll taken by Softline magazine the top three games for Atari computers are Star Raiders, Jawbreakers and Pac-Man. Top three applications programs were Visicalc, File Manager 800 and Letter Perfect.

WHY DOES IT TAKE SO LONG??

As fast as the 810 is in saving and loading data, as compared to the cassette recorder, it's one of the slowest drives on the market. It also has one of the lowest capacities as far as total bytes, With 88K (formated). Although the new drive, the 1050, has a faster transfer rate it's capacity is still small. You could by a Percom double density drive, or wait for Rana and Micro Mainframe to get thier drives on the market (Billy stop holding your breath or your face will stay that color!). OR (you knew there was an alternative) you can buy something called the NCT 810 TURBO Conversion Board. For \$295 you get double density (186K), auto sensing of double or single density, data separator, faster reads/writes than any drive available for the Atari twice as fast in DD mode. Two utility programs to allow you to back-up and "pack" disks and a one year warranty round out the features. See feature on page 6 for ordering information.

SAY WHAT?
I'll hold off on any Atari rumors until next month. But I do have a good Apple story for you. Apple is going to get into the "home" market. How? By dropping the price of the IIe to \$600. If true, it's sure going to raise some peoples temperatures. and the 1833 and how YII3 YOUIN and to proceed

SAY IT AIN'T SO JOE

(Or; Which one of you guys is the Big Bad Wolf anyway?)

I wonder if Atari will go ahead with it's suit against Mr. Bushnell now that they've signed thier agreement. You know, the one that gives Atari first dibs on any new arcade game Nolan develops. It's not only politics that makes strange bedfellows. The standard to stand of sub-balances added

TO SAY GOODNIGHT THE NICE PEOPLE, GARY

Dave told me not to get carried away this month. WHAT! ME! Anyway, I've have to go load my camera and pack some things. So untill the 18th,

```
*************
          OTHER ATARI BBSs
        FROM A.R.C.A.D.E. BB
            313-978-8087
          UPDATED Ø5/Ø8/83
  L = LIMITED Evenings & Weekends
  R = RING-BACK Call, Call-back
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